

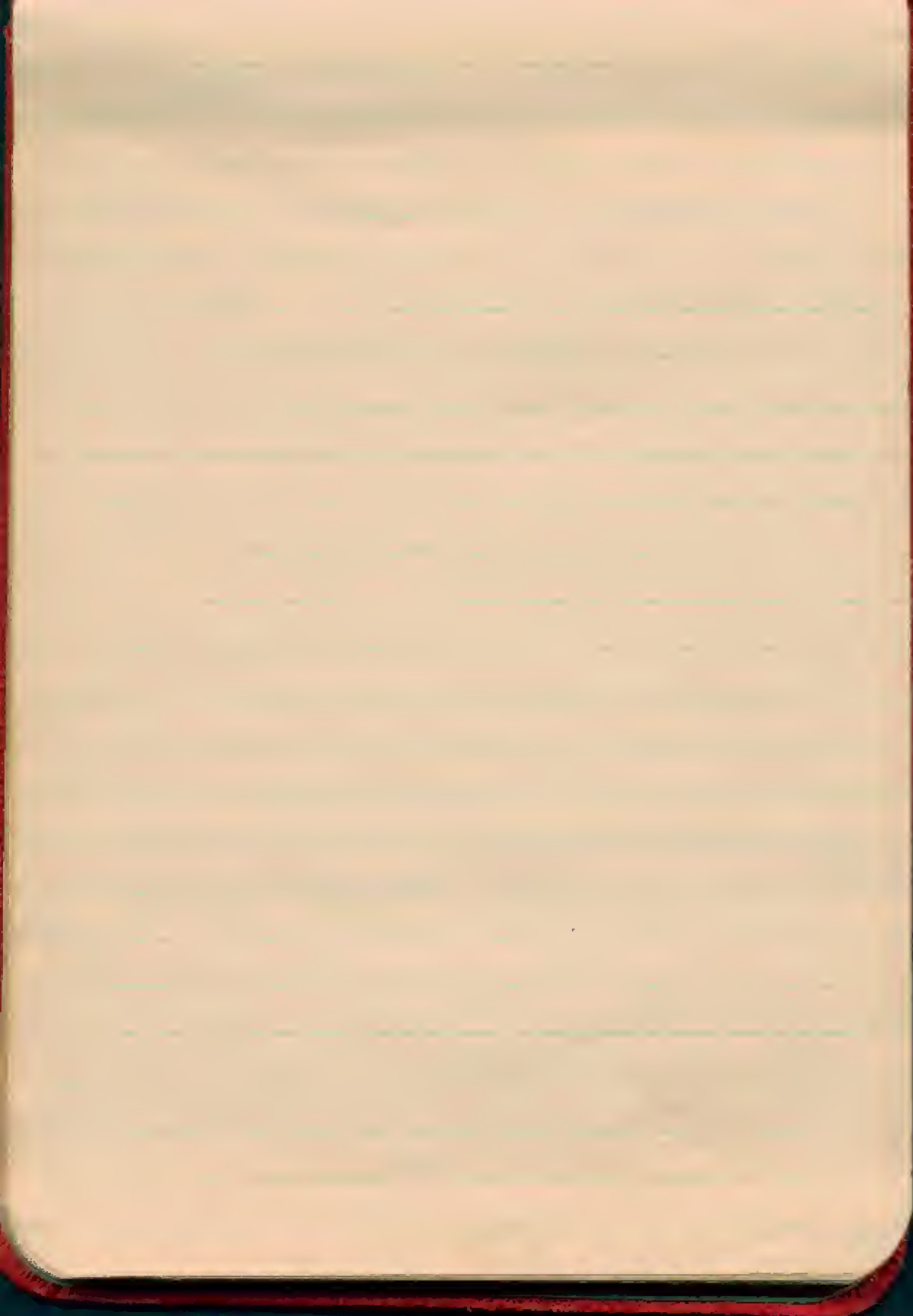
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1958

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J. R. McLEOD

CHIEF OF
MINERAL RESOURCES
CUBANA.



East side rock, grades into
the gty. fels. rock (23) on
the hill.

These are layers of dol
rhyolite, close together $1\frac{1}{2}$ to 2 ft
 80° S. dipping in width from
3 ft to tapering to almost nothing.
In places the gty. fels. rock
has veins of fels. of a
foliation.

A thin, shaly layer 11200
containing 40° S. dipping on its
surface plunging 11200 (mag).

Further east rock containing
lenses of g. Diagenetic rock
to be fels. porphyroblasts in
a mag. matrix of fels. pyroxene
(spinel) the pyroxene is
diagenetic. There are also lenses
of pyroxene quartz gneiss. White fels.
common as well as a
greenish colored pyroxene (spinel)
Several very veins of similar
looking pyroxene occur nearby.

The paper the characteristic is
also similar.

A few small masses of
massive light white
also occur nearby.

A few light copper limestones
further down of which occur
in the center of the group of
light speck of (spec. 3). This
is deep green above a
brown to green into the place
although sharp edges are worn.

Going up eastern end the series
at (spec. 120, ^{constant} extreme) and there
is a lens of very fine grained paper
(spec.) about 10' wide, a lens of
'sharp in the center' seems
sharp edged and present in a
on either side. The
part of dyke is light colored
in the mass (spec. ^{R6}) massive.
Some light green in place in the
of pyroclastic.
Gale on on either side has

pieces of pyrox. + a few of stz.
One one side of pyrox. mass
only grains but a number of
pink quartz to one side of and
left of contact for pyrox.
Pyrox. cont some fine copper
stains.

Near east end of margin of vein of
peg 1120 (mag) 20 W with varying
from a couple of inches in small
bit. Cont ¹⁰⁰³ some red
cryst + stz. On west side
of the C. stz. mass showing
pyroxenitic folding. Hills grades
rapidly into red. Pyrox. + stz.
On east side is pink light
and ~~some~~ grading into normal
of - thin, thin is over 5 ft. It
consists of pink + white cryst
of quartz within bit. Some
thin bands of quartz, red, &
little bit of some small
masses of white stz. Spec of 108
2 spherical plates + some small

A faint surface. Coda
into ~~the~~^{the} of ~~the~~^{the} being
disappears. Of light
change in nature of pelican.
Age of ~~the~~^{the} under the trap.
Phot. of whale with + of
rubid mass. Some black & white
negatives with little bit, etc -
Duke is among dol. engraving
and pyrox. film. alt thumb nail
size, cent. plain pyrox. light
alt 50' wide, alt 12 x 10'
handy jointed.

Country rocks are on the whole
fairly well jointed, on
roughly rectangular lines.

[More green in place. Not up to the
the hybrid green ^{plant} without buds

Mosses are moderately well covered. Most common
size is 1-3 inches. Not
much over 1 foot, and not

of large fragments have
probably fallen from cliffs.
More and goes down to sand
size, not much fine sand.
Occurs as piles with
some tendency to fine debris
being in upper part of pile.

Mostly local rock, but abt 5%
white Qtz flaps. Green gneiss, &
pink gneiss, and some of
cg. gneiss. All fairly
well rounded, and probably 1 to
2 ft in diameter.

11/17/58:

rocks on S side of area all
appear similar to those along
N side on face, & some lt
gray bands in one area, which
may be granite pieces. Flattening
of bands of lt gray quartzite
prob. a result of flattening in
direction to S.W.

Structure appears same to S.W. of
photo point, but may be
different & still be about at
Angles.

A couple of bags of gypsum found
across road at highest point.
No other sign of mining. These
possibly wind blown?

Only rises very steeply to the
behind mountains, which are a
dam. Flow is to north. (photos)
Off N.W. end of mountain is a
pool of muddy water (photos)
& melt stream running out
(photo. Along mountain along a

(Boys line) A pile of well rounded
pebbles on an ice cone to one
side pebbles mostly 1-4" in
diameter. (photos.)

Some pebbles must have been
exposed on surface for a long
time, as they have perfectly
rounded angles to them.

Very few cyanite holes
except in vicinity of
mountain. Surface is very
cracked except where it has been
protected by snow drifts.

Have high permeability
seen with water from all the cracks.

Water present in depression around
some of boulders.

Crevasses visible in side of ridge
sewer at NE corner of mountain.

12th Dec.

At S.W. end of road (cont. on 11th)
is str. 11/20 mag. 30' or. One
reddish brown band, possibly quartz,
fully upon peak. Towards vertical
part of mass, strike appears to swing
anticlockwise for about 60° , possibly
with slight decrease in dip.
Still some st. grey. Red. Lying back
of the hill on north face of E.L. 14. In
the south part of E.L. 14, there are
works common, being large & steep
dipping west at about 20° .

13th Dec. Possible syncline in SE.
part of E.L. 14, shown by
st. red band. The strike is $N35^\circ$,
each limb dipping about 5° to
horizontal. West of rocks
appear to be more recent dip.

E.L. 15.

15/12/58.

much of the N.W. corner
of outcrop, dip about 20° north
only south. Lifting from
on surface, but changes in
dip about 10° N.W. One small
is exposed, about 100' of exposure
dip of 10° N.W. in
on south.

On highest peak, rocks are of
type, in some places, some
beds almost entirely dip.
The N. 30° (N.W.) dip of 10° W.
Some pyroclastic detritus on
side of peak, but nothing in
it. Above beds a small amount
of pyroclastic.

While from generally to the
the N.W. It is covered up high
on the west side of outcrop
of outcrop, but near
of 10° N.W. The dip is
of 10° N.W. The dip is

is apt, swimming in open, from
between main peaks. They are
to be seen often. On west side
of lake are 3 agaves of debris
banks, or chad (over the WNW)
no actual debris on surface but
there are large debris fields in
valley, probably about 10 feet
wide, with rather indefinite
margins.

All igneous have a well
developed vesicular structure
and are often in layers and also
on south side of lake except
near point of ^{about 100 ft deep} ~~the~~ corner of
main peak is a large, rounded
boulder of ^{basalt} ~~granite~~ concealed by
lava for most of its length, and
about 1 ft wide.

There is a line to the west of
main group for just $\frac{1}{2}$ - 1 mile,
being filled in shape.

Similar bands 2 ft, "thick" in
parts of the hybrid gneiss. Also in the
green gneiss are small angular
masses a few inches across, of red
m^g granitic granite; these are sharp
edged against the gneiss, spec⁵⁶ of
hybrid gneiss 3 ft from peg, adjoining
edge of gneiss further from peg.

Page of peg is in the right position
+ the left, some of the + pegs
are very large. The whole
mass is very fine grained
the bed is very fine grained
the bed is very fine grained
the bed is very fine grained
the bed is very fine grained
the bed is very fine grained
the bed is very fine grained
the bed is very fine grained

The N.E. corner of nunatak is a
vein of pegmatite 6' wide, zoned, &
clear to brownish at center 12",
& some pink perthite & some
pink perthite & some at, then in

center, 18" is green graphic granite.
Edges are sharp against hybrid-
ized charnochite, and vein cuts
acutely across bedding. Plates of
biot scattered through dyke, except
along a zone in the perthite, where
thumb nail sized magnetite & ls
are scattered. This zone on only
one side (western, i.e. lower) of
pty zone in center. The hybrid-
ized charnochite is like that at the
pg. described above, but here it
is broken into tight acety folds,
about paral. to the general banding,
which is N 330 (mag) 20° S. A
few thin bands of green zirconite
again occur nearby. Near one edge
of the pegmatite are some small
inclusions of banded hybrid grains,
with the banding paral. to that of the
country hybrid. However they are
close enough to the edge to have
been continuous with the country,
and this section overhangs a bit
so continuation into country

could have fallen away.

Near this peg, and cut by it
are bands and elongate masses
of dark lg. pyrox flaps? high rock
edges are sharp. Against chert
(⁵¹⁹). ~~Pyrox~~ generally only a
few inches wide, but one is a
couple of feet.

Also near peg, but separated
from it by normal chromite and
grading into normal cherty white,
is a band a couple of feet wide
of banded mg. hybrid and, lt.
coloured, $\frac{1}{2}$ ft., flaps + pyrox, latter
in bands 1. ft. ⁵¹¹

Pyrox. banded in places.

⁵¹² Spec. collected of magnetite flake.
Not seen in situ. A few copper
stains in chert. + in pyroxite.

Magnetite is quite unsorted,
except on ridge abt 50' from
base of rocks and parallel to it.
This ridge falls steeply into a
canyon between cliffs and itself
then gently towards the station.

radiation
moat

scattered
debris.

Cliff

Looking abt E.

moat: on the latter slope, it turns
into, scattered debris on ice. On
cliff side slope, there is a change
from detritus about 2-4" across
to detritus 1 ft across which
passes up into boulders 2-3 ft.
across. Dividing line is fairly
sharp. Detritus here is slightly
spherical, elsewhere angular.
There is a small melt pool at N
end of radiation moat but no
melt streams. Blue ice occurs
+ on side of radiation moat, but
away from lip of moat only, white
ice occurs, with small campfires
in places.

Permanent drift extends over good
distance between nunataks, but not
over for small nunatak.

Some mylonite seen amongst
the m. & gneiss, but none seen in
place. Many of blocks of
Charnockite display a post-
glaciation dip on joint surfaces,
probably the result of folding.

19.2 Dec. Large toward northeast
at east end of group dips west
at 10° .

Niblingen, E.L. 22.

23/12/58.

At south west corner of Nipatah is
chamchitic gneiss, mostly mg,
sp. granular, mod. well foliated
+ some banding due to variation in
amount of pyroxene (sp. 1). Pyroxene
is black or grey translucent & brown
brown. There are numerous
bands and lenses of a mg
rock, (sp. 2) similar mineral-
ogy, generally with sharp
edges against the mg. type. There
are one or two dark pyroxene
bands.

Direction of banding rather
irregular, esp. near knots &
veins of 30 pg, but general direction
is N. 30° (or 40°) E. Pg is two
kinds, one ^{prob} coarse with fsp, some
qtz + pyrox (prob. fsp), a coarser
variety of chert. Other is fine
textured, with less brown color.

more side ...
numerous ...
man- ...
straight ...
Gen. ...
Yellish ...
Some ...
Rough ...

Barren; then grass, moss & a few
dry hups & a few ferns. The low-lying
fol, some of the ferns are quite
near those of moss, etc, fern, some of
herb

to flaps, more sty (white in
colored) and hist. plates in base
of p. 100. They both form veins
+ spots from a few inches to a
foot across. Banding of chert is
very irregular, as though they had
been forged into plastic mass.
Folding visible in chert
(see below, cf. stylolite zone)
but not regularly developed.

Chert veins pass over a couple
of feet into stylolite zone or into
a thin bed of chert (spec. 3). This
bed is about 1-2 in. thick, with
a moderate banding
due to iron in amount of quartz
and light. The amount of chert
generally decreases upwards (the
30 ft above base). There are bands
almost pure feldspar, an inch
or two wide, and others of
feldspar. Strike is N 20 (or 30)
W 0° E. There are others with

very little bit of it; there is a dark
slightly coarser. About 50 ft
above the base there are
slightly transverse, sometimes
"plagioclatic" folded veins an
inch or two wide. They are
slightly coarser than the g. f. f. f.
green quartz, have less bit. + f. f.
and the same or less green.

Although small white fields
can be seen in places there is
no obvious trace of f. f. f. g.

A few feet above base is a
band 1 ft wide of dark green
f. f. f. with some (spec⁵).
Possibly a pyrox. rich charn.
band.

Above this more or less green
green. quartz is of f. f. f. green
quartz with slightly varying
texture (spec). It is slightly darker
and of less abundance. The
rock is brown coloured. Grain
size ranges from f. f. to c. m. g.

bands almost pure paper
sometimes & white off are
common. But is rare, except
in a sort of growth
of black lg. lumps. There are
bands of c-mg blip & a little
of some ^{c-mg} stuff, and films
of pale green fibrous mineral
? ~~lumps~~ ? The rock
is thin. It also contains
circular blabs a couple of
inches across of flint + ? tments,
sharp edged against the paper.

Higher up, the rock is similar,
but contains thin streaks of
white sp^T & quartz. A banding
N 30 (mag) 40 E. thin sheet
off blip (c-mg) regions cut across
this banding, although many
are roughly concordant, but
rather irregular. There are
numerous small faults.

The main zone of foliation is
in the zone of variegated, hard
of deep green quartz. The
folios are, nevertheless, sometimes
attenuated, part. to the banding
in the lowest of deep garnet
quartz (i.e. slightly parallel)
and appear to have been
expelled towards the west.
They are best shown by the
bands of hornfels. Near the
base of the zone, a layer of
very deep green quartz, thin
green. Shows small large
crystals and an almost band-
ing structure, e.g. of deep
the banding of "light" and
long of deep green quartz around
it and outlining it.

Fig. 13.

No definite mosaic, but numerous
blocks of a dark green with

rock & slip, agnets, some
puffins, etc. and others of the
Green-labrador? Atlantic?
(Apech.) This not observed
in situ, probably a more
extensive case of the type with
faint patches.

Some ice where permanent
has drifted around rocks, &
in part of base of wind score.
In upper part of score are
mounds of ice, probably semi-
circular effects which have
formed to ice. A few small
crevasses parallel to edge of
rock.

Heckel Pass E.L. 17.
28/12/58

Light yellowish, lustrous green to brown
of the and of the leaf green.
There is a thin yellowish (spec) thin
surface of leaf. Seaweed lighter
coloured (light green) (spec) from
a mag. 2000 ft. level. A small
of light greenish of leaf. Also
light bands a few inches wide
of of and yellowish, of with
an elongated appearance (spec)
and concentrated in the
edges are sharp greenish yellow
green. Generally fine but some
of the of the former long lines.
of slight elongated crystals. A
few bands of green of the
greenish of the green.
They rock strike N370 (mag) 60°W,
with a lineation (esp in the
feldspar bands) in the plane of the
plunging N200 (mag). On rocks
strike 60° E. N. 10°

Notes from the [unclear] of [unclear]
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There is a good jointing N250 (mag)
30°S, with films of brkts. along
the joint.

Instead of these are thin
irregular skins of ^{quartz} brown coloured
yellow mg to 60 mg, & feldsp. of
some kind, which are greenish
concentrated, but mainly cut
acutely across the foliation of the
gneisses. The edges are sharp.
Against the hybrid gneiss.

In one place creamy qtz bl. sp.
up to 1/2 inch or so, overlies
which are highly crystalline. This
band is abt 30 ft thick & is cut by
a north-south type (see later).

Higher still, the qtz feldsp. gneiss
becomes of feldsp. gneiss, which
alternates with hybrid gneiss.
The latter predominantly having a texture
of q-f-g gneiss variable; most
common is mg mass. feldsp. gneiss
with a texture not unlike the hybrid
gneiss; the joint is in the feldsp. gneiss.

It is very fine, so to speak,
is very like the of Jasper green
bands in the upper part of the
addition. Some types also contain
coarser grains, almost pebbled,
concentrated in layers. This looks
like a thin, smooth, angular of
light greenish a darker look. This
rock is irregular
grained. Also a band about 10 ft
wide of fine banded of light green
to bluish well defined bands. This
is a very beautiful band
about several inches across.
Near this band is a lens (or vein)
of a pale greenish yellow, (spec)
pale to the note about 1 ft.
thick, is 1120, 705. (200).
Small peg veins cut across.
Most are gray. & (pale white)
several inches across, in matrix
of light gray + some biot (in
which dark gray, are showing
along cracks). Some also

1. 1000 ft. of sand
 and gravel. 25% gravel. 10% pebbles. 5%
 sand of red. 25%
 2. 1000 ft. of sand

Cutting across gneisses (N140°, 80°S to N160°, 80°S) are bands of dark but rich rock (spec) probably melanocratic dykes. Most are about 1 ft wide, sharp edged but tend to blend into banding of gneisses eventually. A few thin bands parallel to foliation maybe relics of sim. rock. Many have a faint foliation parallel to their edges, due to changes in color of rock, producing small banded lines. A few contain thin banded light masses (generally slightly elongated of 1/2 inch).

Cutting the top of the gneiss is a 10' wide layer of light material in which color of rock changes considerably across width, some parts having only 10% of the color even more than the spec. above. The banding in this dyke is faintly marked. The dyke cut out of cliff at least is N160 (N20°) 80°S, while the top of the

several smaller dykes cut the
granite. To the top only.
if these dykes are cut by the
thin granite veins (see p. 53). A
couple of the same part, both
edges of the big dyke, and in its
the dykes cut the granite veins
part, to the landing of the granite.

no sig. evidence of cherty; the granite
slightly higher than the granite
of the lower of the granite
variable. (about 1/2 of the granite)

granite from hills along base of
up and for 50' out. of the
granite sl. to mod. well sorted
pebbles common and large
boulders seen. (large boulders
< 5' boulders (6-8') 10%
pebbles 50% sand (in 7' in)
35%.

much of the water, and in one
spot is a melt lake in depressions
in piles, & sheet of ice over and
frost water in sand. Evidence of
aggradation over beach lands
this lake is shallow (wind)
channels in it (if water comes
over beach from swamps at
low tide). A couple of 300.
melt lakes, & bubbles in piles of
surface craps to or disintegrated.
Elevation under the, locally due to
wind, as some lake surface is
ice & wind from mts. have
now on river level - silt, and
a "dirt" of ice on beach side,
even when lake is running.
silt. Very fine sand to the
except in melt lake. Level of
melt lake camp 300 to
magnet north from sea
east end of ridge.
Melt pools common in depressions
moraine. Temp. at sea level
12° F.

Limestone 14-20 ft. thick
 The upper part of the limestone is
 very fossiliferous and contains
 many small corals and other
 fossils. The lower part is
 more massive and contains
 fewer fossils. The fossils are
 mostly small corals and
 other marine animals. The
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Thursday, June, 20/1950.

At top of ridge above first mine
further up road at yellow quartz
cap is abt 10' wide. near top
of ridge - steep road of
white quartz - some red
quartz. These are usually
a little concave but some
cut across the ridge. The
quartz is. On the road to
the west. At the top
here it 295 (mag) 5075 with a
limb - plunging ^{17-19°} (mag)
here there is also a note -
will 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



on the heavy ... at
the top of the cliff. This
limestone of the ... is
common between the and
summit. Some ...
scattered ... of
just in bands. In other places
it is ... also ...
in the ... the
lenses. In places it also
contains ...
on the top of the ...
green ... a rough
appearance ...
of ... of ...
and ... small ... of
...

... of white ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...
... ...

13 of 30 at top.

How often (approx).

... of the ...
... brownish in color? ...
... but varying from ...
... in the ...
... to the ...
... above.

Other bands, usually only a
few inches thick, of ...
... were seen, & ...
... places.

The ... are ...
... some ... There were
not
concentrated on the surface.
Below the first prominent point
is a ... on the surface
of ... & some ...
(spec^{ies}). Lumps up to 4 inches
...

Strike of the ... is N 150° mag
60° S, with a ... N 100°
(mag) ... pitching South (mag)
at 40°.

On the west side of the main
ridge, the city block seems to be
a fault. The block is a small, the
rest is a fault. This slope
is a member of the Laramie
group on the ridge. The
summit ridge is a
age very well bedded and to the
sharp marked dip. The dip
abt. 340 (mag) at 30°. The
is top to south on north
south faces, to west on east-
west dips. All are filled by
a couple of feet of a gray, pink
clay, & light plate.
A big fault in valley in center
of range striking abt. at 290 (mag)
50° S. Pieces of copper in some
moraine blocks.

The road goes down to point of
first prominent peak (abt. 300
feet below at least). There is
moderately well exposed, gray
below a couple of feet in thickness
with much of it below 6 inches.

... in the ...
... (white spots)
... a
... But could also
... more likely. At the ...
... is a circular
hemispherical with an earthy
wall, and surrounded with
mosses.

The prominent
dip at the
east end shows
concentric ...
... (all
... p. 66. The main
valley through the range is now
longer, occupied by ... which
is ... on S. side of it.
... on N. side,
... a steep fall.

A few pools of dark soil
... in the ...
... 5 to 10 feet, ...
... of ...

1/1/59. Greenish earthy
stone grey, mag. S.W., dip 60°
NW. Prob. bedded 25° on
E side. Greenish & brown beds
quite a few conglomerate
fragments.

Crystalline is mostly of
quartzite. Has one piece of
crystalline. In fact, with
some quartzite in
some directions.

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Leckie Range

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